



ONE 1DROID

Cat® 1Droid Electric Unicycle User Manual and Quick Start Guide

*English Version
Outdoor Sports Equipment*



Introduction!

Dear Customer,

Thank you for choosing Cat® and Congratulations on becoming the proud owner of the new and adventure packed Cat® 1Droid.

Now that you've unpacked the unit its time to get started with the first steps on how to get acquainted thoroughly with the Cat® 1Droid. The 1Droid is an outdoors sports device which allows for more freedom and ability to quickly move from place to place. The compact yet powerful unit is loaded with hours of leisurely entertainment for all ages.

Please read this user manual carefully, to ensure that you:

- quickly learn how to ride the Cat® 1Droid,
- Do not fall or injure yourself,
- can fully enjoy the 1Droid and
- be a step ahead from the competition!

Before we get started:

Just like riding a bike for the first time, the start was probably wobbly, uncoordinated and slow, however with practice the actions became more natural. Balancing, steering, accelerating and braking are now second nature. Similarly, this is how it will be when learning how to ride and operate the Cat® 1Droid.

With the step by step guide you will be cruising through your neighborhood in no time! With these detailed instructions you will learn how to use and operate the 1Droid, find your balance and ride confidently. It is important to note that you should not expect to instantly take off on the streets with the 1Droid, just like learning how to ride a bicycle, there is steep learning curve- all it takes is some practice and patience.

Included with the 1Droid are training wheels to offer you support while learning, it is also recommended to have a friend assist you during the learning process.

Cat 1Droid

Designed with ease in mind- the Cat® 1Droid has been created for all types of users, experienced and inexperienced. Equipped with a special stabilization system the 1Droid makes it easier to balance on one wheel. The system helps prevent the rider from tipping forward or backward but naturally it is up to the user to learn how to maintain their own balance, as to not fall over sideways. Support tools such as training wheels and a grip belt come included with the unit

Your safety is very important to us therefore it is imperative you read through this manual carefully.

It is highly important that you practice caution and safety when using the Electric Unicycle. Only practice and ride the unit in designated areas permitted by your local laws and regulations as to not endanger yourself or others around you.

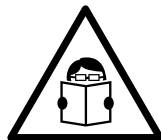
Please note: The Electric Unicycle is classified as a sports equipment, therefore it may not be used on public roads (as of January 2015, Germany).

It is likely you will draw a lot of attention to yourself while riding the 1Droid, due to its unique features, therefore it is very important you pay special attention to all the laws and regulations and always take caution for others around you. Always ride responsibly.

Finally, ensure you read through the manual carefully and enjoy responsibly your new Cat® 1Droid!



**SPORTS DEVICE
USE
CAREFULLY**



**READ
USER MANUAL
THOROUGHLY**



**WEAR
PROTECTIVE
GEAR**

Cat 1Droid



1

***This image contains an experienced rider.
Make sure to wear protective gear!***

- *Before riding the 1Droid carefully and thoroughly read through the Instruction Manual*
- *Use a wall, fence or other stable object to help you stabilize yourself while getting on the unit*
- *Place one foot on a pedal*
- *Do Not turn the Power on yet.*

- The Cat® 1Droid will only stabilize itself once it is turned on.
- Once you power on the unit be careful of your feet and ankles, the unit may set in motion towards you causing injury. Hold on to the top handle bar while powering on.
- While the unit is turned on, slowly get a feel for its weight and rolling behavior- before starting to ride
- **NOTE: Use the training wheels and removable belt (included) when learning how to use the 1Droid. For further instructions please visit 1droid.cat-sound.com**

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- *Support yourself using a wall or stable object*
 - *Press the Power button on*
 - *Slowly stand upright*
-
- The Cat® 1Droid will begin to stabilize itself and allow you to find your balance more easily
 - It is recommended to have a friend help you during this stage

3



- *Repeat the process from Step 2*
 - *Now place the other foot on the opposite pedal.*
-
- Straighten your posture slowly
 - As you straighten your posture you will feel the stabilization system on the 1Droid begin to work.
 - Remember the 1Droid balances on **one** wheel. The balancing system only maintains balance forwards and backwards not left and right. It is your duty to keep the right and left balance.
 - Ask a friend to help you keep your balance when getting started
 - **NOTE: The best balance is achieved once you start riding. Initially it is difficult for inexperienced users to maintain their balance when standing in one spot. You may find that even when riding slow your balance may not be perfect, try to maintain a decent speed. Just like riding a bike this procedure needs some practice and getting used to.**

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- *Next, slowly push off the wall, or other stable object, and straighten your posture while standing on the 1Droid.*
 - *While learning, it is best to have a friend or support to help you with this procedure*
-
- It is recommended to try to balance on your own
 - You can use the training wheels as support to help you learn to balance on the 1Droid. For further information about the training wheels and instructions please visit: 1droid.cat-sound.com

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- *Stand up, balancing yourself on the 1Droid (using support at first)*
 - *Slowly lean forward*
 - *Leaning your weight forward will set the 1Droid in motion.*
 - *You are now ready to ride*
-
- Be very careful! When leaning forward the Cat®1Droid will automatically start moving. This will take some practice learning how much pressure and balance to apply.
 - Keep in mind this unit rests on a single wheel, even with the stabilization system it will not simply stay in one spot.
 - Roll carefully back and forth to practice balance.
 - Just like a bicycle it is easier to keep a steady balance by maintaining a consistent speed. **That does not mean we recommend you should accelerate or speed. The faster you go the higher risk of injury. Please be responsible when learning to ride the 1Droid!**

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- *You can now ride freely*
 - *Slowly learn and practice how to accelerate forward*
 - *To reduce your acceleration lean back slightly*
 - *To steer, lean slightly to your desired direction.*
-
- Do not pivot your upper body to turn - this method is not effective
 - To help practice balancing, support yourself up right using, either, a wall or friend.
 - While standing on the 1Droid slowly roll back and forth in one spot to find equilibrium
 - An instructional video on how to balance can be found on: 1droid.cat-sound.com
 - **Keep practicing how to balance and coordinate yourself on the 1Droid. Its important not to give up immediately - just like riding a bike, once you learn how to ride it'll become second nature. :-)**

Product Description

The Cat® 1Droid is a new high-tech outdoor sports product. Developed using state of the art aerospace attitude control theory, fuzzy software algorithm and Gyroscope system to allow riders to maintain balance by leaning forward and backward. Through slight movements of the body the user can control the acceleration, deceleration, braking and other driving operations. Using similar techniques to riding a bicycle, riders are able to maintain balance by slightly titling their body sideways.

The 1Droid is not just environmentally friendly, portable and durable but also offers hours of leisurely entertainment.

Specification	Parameter	Notes
Max Speed	~ 15 km/h	
Cruising Range	~ 20 km	
max. Climbing Angle	~ 15°	up to 25° for riders weighing 60kg
Battery	132 Wh Lithium	Protection Circuit
Max Weight	120 kg	
Charging Voltage	AC 220 V 50 - 60 Hz	
Charging Time	~ 60 Min	up to 80% in 45 mins
Size	390 * 450 * 170 mm	
Tire Size	360 mm	
Weight	11,5 kg	
Tilt Protection (Caution!)	Average 45°, left and right	When more than 45° Unit will switch off
Speed Limit Protection	Activated from 10km/h	
Low Battery Protection	Activated when less than 5%	

SAFETY

With any sport there are always security and safety risks, this device is no exception, therefore **it is highly recommended and important that you learn about the safety precautions associated with the 1Droid**. Always take precautions when riding and operating the unit.

Important Notes:

- Wear protective gear when riding the Cat® 1Droid, such as a helmet, gloves, knee pads and other safety supplies
- Do not ride on public roads!
- Refrain from rapid acceleration and rapid deceleration.
- Do not excessively lean forwards or backwards
- Do not speed!
- In the event that you fall off the 1Droid, always give priority to your own personal safety and that of those around you.
- Do not drive on bumpy roads and paths (ex. Dirt roads).
- Do not drive on ice or snow!
- Do not exceed ramp inclines more than 15°!
- Children under 15 years of age should always be supervised when operating and riding the 1Droid!
- Do not ride during heavy rainfall!
- To avoid any misuse turn off the units power supply and store properly when not in use.
- Children should always be supervised when using or playing with the 1Droid.
- Do not use the device when the battery status is low!
- Do not leave the 1Droid unattended while charging. If you must leave, unplug the unit from the power supply.
- Only use authorized and approved accessories!
- Do not disassemble the 1Droid. For any repairs please contact your distributor or a professional service center.
- For further information please visit www.cat-sound.com

The Cat® 1Droid is an outdoor sports device. Users must always take the proper precautions and care when riding and using the device. The company does not take any responsibility in the event of any personal injury due to misuse, misconduct or use that is not in accordance to the user's manual for the 1Droid.

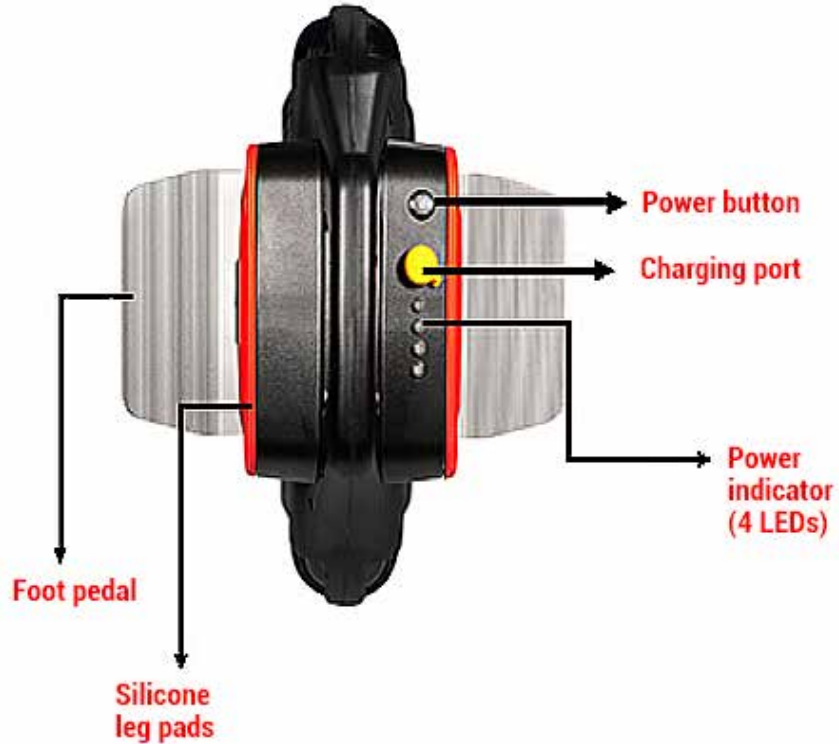
The use of the Cat® 1Droid is exclusively and fully at your own risk. The manufacturer is not liable for any damages caused by the operation or misuse of the Cat® 1Droid, only in cases of gross negligence deliberately caused by the manufacturer.

All users of the Cat® 1Droid take full responsibly for any damages, such as financial or material, that may occur to themselves or those around them while driving the 1Droid. The use of the Cat® 1Droid is not permitted for individuals that:

- suffer from any illnesses that prohibit from safely using such devices**
- under the influence of Drugs, Alcohol or any medications**
- Pregnant women**
- Persons with heart conditions and/or high blood pressure are strongly discouraged from using the Cat® 1Droid. .**

Getting Started:

A) Device Diagram



B) Battery Status Indicator

The 4-LED lights indicate the charging status of the battery.

Always check the status of the battery before using the 1Droid

Charge the unit when the battery indicator lights start flashing red to avoid an empty charge during use. We recommend charging the 1Droid after each use.

When the battery charge drops under 5% all 4-LED lights will flash along with a continuous beeping sound. The front pedal will then gradually lift, forcing you to slowly decelerate to a stop. In this case, do not start riding the unit again to avoid running out of power suddenly. When the device runs out of power all safety systems will cease to function and you will run the risk of injury to yourself, the unit and others around you.

Never ride the 1Droid when the battery status is low as to avoid injury.

Please note: Your driving range in the Winter and low temperatures will be reduced due to the effect that cold temperatures have on the lithium battery discharge. Therefore, it is important to consider that your riding mileage may be shortened.



DO NOT DRIVE WHEN ALL FOUR LED LIGHTS FLASH

C) SPEED LIMIT PROTECTION

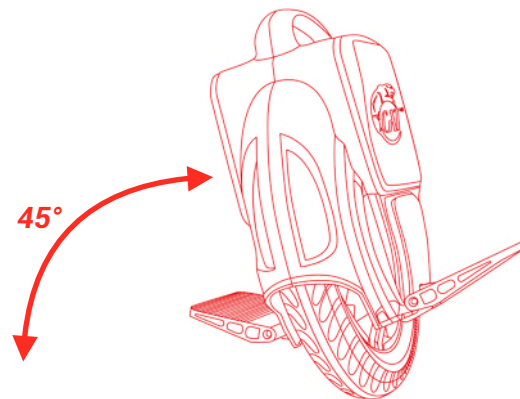
In order to prevent and minimize the risk of injury the Cat® 1Droid has an integrated electronic speed limit. When the speed of the unit exceeds 12km/h the foot pedals will slowly lift to signal you to decelerate. If you do not slow down at this point a warning signal will sound.

Note : Do not force the body to accelerate forward when the speed is nearing the maximum speed

D) Roll Protection

An automatic rotation protection system is activated when the Cat® 1Droid is tilted more than 45° sideways, for example when the unit falls. The system will immediately stop the wheels and motor from rotating in order to prevent and minimize injury. As soon as the Roll Protection is activated an alarm will sound and all 4-LED indicators will flash at the same time.

To deactivate the alarm simply reboot the 1Droid by turning the power switch off and on again.



E) Charging

Only use the designated power supply to charge the Cat® 1Droid.

To charge your 1Droid connect the authorized Power Supply (included) to the charging socket (located on the top of the device beside the Power Switch) to a power outlet. Under normal charging conditions the unit will take approximately 60 minutes for a full charge, and about 45mins to reach 80%. While charging the 4-LED indicator lights will be red, the light will turn green once the charge is complete.

Allow the 1Droid to complete a full charge before unplugging the unit from the Power Supply. Only if completely necessary, or in emergency cases, should you unplug the device during a charge. Do not leave the 1Droid unattended while charging.

The Power Charger may emit a slight humming noise when plugged in, this noise is completely normal and does not indicate any defect. If you suspect any defects to the charger do not connect it to the power outlet and contact your distributor.

F) Water Resistent

The Cat® 1Droid has a waterproof rating of IP56. It is water resistant however not waterproof. This means the unit can be in no more than 10cm of water. The unit can only be used in light rain.

Avoid using the 1Droid during heavy rainfall, and submersing in deep water.

Before Riding:

A) Find an appropriate training area: To practice riding the Cat® 1Droid, select a flat and open area free from other vehicles and crowds of people.

The Cat® 1Droid is classified as an outdoor sports device, it is not intended as an alternative for transportation. Therefore driving on public roads is strictly prohibited (as of January 2015, Germany). Users are responsible for their safety and that of those around them while riding the 1Droid.

B) Prior to riding the Cat® 1Droid, always check:

- The battery is sufficiently charged
- The devices' warning sounds are working- To test simply turn the 1Droid on, it should sound a beep, this indicates the speakers are working.
- There are no loose parts or unusual noises
- There are no mechanical or electronic problems with the unit

You may start riding once you've properly checked that the 1Droid is functionally secure and the battery is fully charged.

Note: The Cat® 1Droid will warn you when the battery is low by sounding a long 'beep' noise. The same warning sound is emitted when the device's Roll Protection is activated and when you exceed the speed limit of the device.

The 1Droid must make a short 'beep' noise when powered on – this allows you to check whether the speakers in the unit are working properly. If the device does not make a short sound when you power it on, it may indicate the warning signals are also not functioning. It is strongly recommended that you do **NOT** ride the unit. Immediately contact your service center to prevent any injury.

C) Learn with Friends

It is recommended to learn how to ride the 1Droid with a friend, to be able to exchange tips and ideas as well as, to offer each other balancing aid.

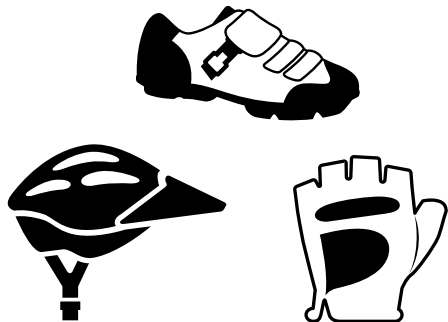
D) Always wear protective gear:

such as Helmet, knee and elbow pads, gloves etc...

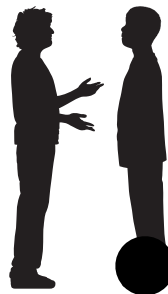
E) Wear Appropriate clothing

When using the Cat® 1Droid make sure you wear appropriate clothing that will not obstruct or constrict your movement. Be careful that you do not wear clothing that can get stuck in the wheel while riding.

Protective gear



Use a friend as a balancing aid

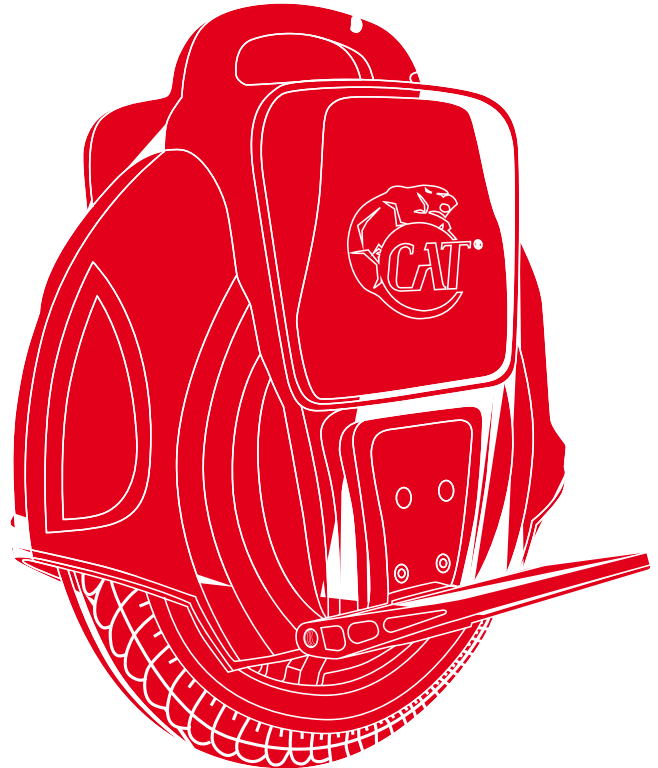


For the following:

- *Further Information*
- *Instructional video tutorials*
- *Accessories for the 1Droid*

Visit us at:

1droid.cat-sound.com



Safety Instructions:

Avoid exposure to the device from extremely high or extremely low temperatures

Protect the device against exposure to smoke or fire.

Avoid water or moisture contact with the device

Do not expose the unit to strong electromagnetic fields

Do not throw or drop the device. If the device is damaged please contact an authorized service provider.

Do not disassemble the unit. Repairs on the unit may only be performed by qualified personnel.

This device is NOT waterproof. Do not submerge it in water. If the unit sustains water damage immediately take it to an authorized service provider.

Do not use organic or inorganic solvents to clean the device, such as Benzene

Improper disposal of this device may cause adverse effects on the environment and human health. Always take the necessary recycling requirements to reduce the cause of risk to the environment. For more detailed information on how to properly dispose the device please contact either your nearest waste disposal service, municipal office or an authorized service center.

Keep the device away from Children!

The consumer is legally obligated to dispose any batteries to registered collection centers. Do NOT throw batteries out in domestic waste

Maintenance and Storage

- Store device in a dry location

- Inflate tires using a pressurized air pump

- Do not disassemble the unit. In case of any damage always contact your service provider.

FOR A GERMAN MANUAL VISIT:

1DROID.CAT-SOUND.COM

FOR A DIGITAL COPY OF THE USER MANUAL PLEASE VISIT:

1DROID.CAT-SOUND.COM

FOR THE CAT® 1DROID VIDEO TUTORIAL VISIT:

1DROID.CAT-SOUND.COM

FOR WARRANTY INFORMATION VISIT:

1DROID.CAT-SOUND.COM

ANY FURTHER QUESTIONS OR COMMENTS CONTACT:

CAT SOUND

REUCHLINSTRASSE 10-11

10553 BERLIN

E-MAIL: SUPPORT@CAT-SOUND.COM

TEL: +49 (0) 30 346 55 99 0



Warning: Product to be stored in a dry environment between -10 °C und 40 °C.
Please stack carefully.

Bitte trocken und zwischen -10 °C und 40 °C lagern!
Bitte vorsichtig stapeln!